

MODELS: Stinson SR-8D (Army UC-81B), -8E

T.C. NUMBER: ATC 609

I - SPECIFICATIONS PERTINENT TO ALL MODELS

Placard speeds	Level flight or climb - 164 mph True Ind. Glide or dive - 222 mph True Ind. Flaps extended - 122 mph True Ind.
Fuel capacity	82 gallons (two tanks in wings at 41 gallons each (+34))
Oil capacity	5 gallons
No. passengers	4 (See NOTE 1) (Front +15, rear +52)
Baggage	150 lbs. (50 lbs. under rear seats (+52) and 100 lbs. in compartment aft of cabin (+73) (See NOTE 1). Includes anchor and rope 25 lbs. in seaplane type.
C.G. limits	(Landplane) (+17.1) and (+27.0) (Seaplane) (+17.7) and (+26.2)
Specification basis	Approved Type Certificate No. 609
Serial numbers	9702 and up manufactured prior to 9/30/39 and all AAF numbers eligible. Approval expired as of 9/30/39. (Serial 9701 does not have revised wing torque vees and fuselage. Eligible with placard speeds: (a) Glide or dive 211 mph.; (b) Level flight or climb 153 mph. All other specifications same.)

EQUIPMENT:

(Datum is wing leading edge outboard of curved portion) (* Means net increase)

Class I:

Landplane:

- | | | |
|---|---------|-------|
| 101. Engine ring cowl | 29 lbs. | |
| 102. (Now Class III equipment) | | |
| 103. Starter (Eclipse F-141) | 25 lbs. | |
| 104. Heater and ventilators | | |
| 105. Leather upholstery | | |
| 106. 7.50-10 wheels (Goodyear 10 HBM) with 8.50-10 4-ply tires (wheels must be placarded for this size tire) | | |
| 107. 10.5 inch streamline tail wheel | | |
| 108. Battery (Exide 6TS-13-1) (aft of cabin back wall) | 38 lbs. | |
| 109. Hammock type rear seats | | (+12) |
| 110. Spring and oil struts (Stinson Drawing L551) | | |
| 111. (Now Class III) | | |
| 112. Items 310(b) and 313 (noted below) (Model SR-8E only) | | |
| 113. Propeller (See also Item 319) | | |
| (a) Model SR-8D - Hamilton Standard hub 2B20; blades 6109A-9 or 6109A-10, or blades 6135A-9 or 6135A-10. Diameter 8'3-1/8" maximum, 8'7/8" minimum. | | |
| Low pitch setting 13.75 degrees. | | |
| (b) Model SR-8E - Hamilton Standard hub 2B20; blades 6109A-12 or 6109A-13, or blades 6135A-12 or 6135A-13. Diameter 8' 1/8" maximum, 7' 9-7/8" minimum. | | |
| Low pitch setting 13.25 degrees. | | |

Seaplane: (Items 101, 103, 104, 105, 108, 109, 111, 112, 113 PLUS)

151. Edo 39-4000 floats with water rudder

152. Seaplane fin (Stinson Drawing C1691)

change A) (Note this fin differs from that used on SR-8E and SR-8C)

Class II:

200.	Miscellaneous items as noted in approved weight and balance report		
201.	Generator		
	(a) 25 amp.	30 lbs.	(-32)
	(b) 15 amp.	25 lbs.	(-32)
202.	50 gallon fuel capacity (2 tanks in wings at 25 gallons each)		Net decrease 17 lbs. (+34)
203.	70 gallon fuel capacity (2 tanks in wings at 35 gallons each)		Net decrease 5 lbs. (+34)
204.	(a) 49 gallon reserve fuel tank under rear seat (baggage under rear seat - none)	50 lbs.*	
	(b) 8 gallon oil tank		
205.	Multipurpose type (designated by pertinent model suffixed by letter "M"). This type may have auxiliary door frame for main and auxiliary doors, removable back on copilot's chair, stretcher door in back wall, ski type fuselage, ambulance litter and installation, metal lined cabin.		
206.	Heavy duty battery (aft of cabin back wall)	75 lbs.	

Class III:

102.	Wheel streamlines	24 lbs.	
111.	Fire extinguisher (Pyrene Press.)	11 lbs.	(+2)
301.	Special instruments, maximum	37 lbs.	(-9)
302.	Flares		
	(a) Three 1-1/2 minute	17 lbs.	(+96)
	(b) Two Wiley 3 minute	38 lbs.	(+88)
303.	Fire extinguisher (Lux Press.)	20 lbs.	(+2)
304.	Releasable cabin door	Neglect weight	
305.	Puncture proof tubes	6 lbs.*	(+3)
306.	Landing lights (Grimes) and wiring	14 lbs.	(+14)
307.	Special polish on wings	10 lbs.*	(+36)
308.	Camera hole in cabin floor.	4 lbs.*	(+33)
309.	Bonding	4 lbs.	(+80)
310.	Shielding		
	(a) Packard	9 lbs.	(-44)
	(b) Breeze (standard on SR-8E)	13 lbs.	(-44)
311.	Parachute		
	(a) Pilot chair 1 or 2 at 15 lbs. each		(+18)
	(b) Passenger chair 1 or 2 at 20 lbs. each		(+62)
312.	(a) Radio receiver (RCA AVR-7 series) (rear wall of cabin)	24 lbs.	(+66)
	(b) Radio transmitter (RCA AVT-7 series) (Transmitter on cabin back wall and power unit at instrument panel.)	30 lbs.	(+31)
	(c) Radio compass (RCA AVR-8) installation	62 lbs.	(+54)
	(d) Antenna		
313.	Automatic valve gear lubrication (standard on SR-8E)	7 lbs.*	(-51)
314.	Ski type fuselage (Drawing F-3274)	7 lbs.*	(+12)
315.	Ski type landing gear	14 lbs.*	(+6)
316.	Lifting hooks, fog and mooring lights	7 lbs.*	
317.	Starter (Eclipse E-160, 32 lbs.)	7 lbs.*	
318.	Oil cooler	12 lbs.	
319.	Constant speed propeller control unit (low pitch setting 12.75 degrees)	6 lbs.*	
320.	Reinforcement for lower lift strut yokes (one on each side of fuselage) per either of Stinson Drawing numbers Z-2276, Z-2315, Z-2328, Z-2336 or F-3440	4 lbs.*	
321.	Wing lift fitting alteration in accordance with Stinson Drawing Z-3515		
322.	Curtiss propeller 55503 (Model SR-8E)		

NOTE 1. Airplanes eligible are approved also as 4-place type with two safety belts (instead of 3) on rear seat.

NOTE 2. Eligible for export as follows subject to inspection for equipment specified in Chapter XII of Inspection Handbook (6/29/38):

- (a) Canada
 - Landplane
 - Seaplane - Maximum standard weight 4000 lbs.
 - Skiplane - not eligible. However, structure complies with Canadian requirements for ski installation when items 314 and 315 are installed.
- (b) All other countries except Australia.

NOTE 3. This series differs from the series with Lycoming engines (ATC 608) as follows:

- (a) Fuel lines 3/8 in. on ATC 608 and 1/2 in. on ATC 609.
- (b) Items 101, 103, 110 and 152 differ as noted.
- (c) Power plant installation (including oil cooler) differ.

II - MODEL SR-8D (UC-81B), DESIGNATION 5 PCL-SM (See NOTE 1)

Engine	Wright R760E-1
Placard limits	Maximum, except take-off
	-- in. Hg., 2100 rpm (285 hp)
	Take-off (one minute)
	-- in. Hg., 2100 rpm (285 hp)
Weights	Empty - Use actual (seaplane approximately 329 lbs. increase over landplane)
	Standard - (Landplane) 3800 lbs.; (Seaplane) 4000 lbs.

III - MODEL SR-8E, DESIGNATION 5 PCL-SM (See NOTE 1)

(Same as SR-8D except engine and items 310(b) and 313)

Engine	Wright R760E-2
Placard limits	Maximum, except take-off
	32 in.Hg., 2200 rpm (285 hp)
	Take-off (one minute)
	-- in.Hg., 2400 rpm (350 hp)
Weights	Empty - Use actual (seaplane approximately 329 lbs. increase over landplane)
	Standard - (Landplane) 3800 lbs.; (Seaplane) 4210 lbs.